

WHAT IS CLAIMED IS:

- 1. A multi-function clamp comprising:**
 - a base plate having two pins oppositely formed on the base plate and two L-shaped supports extending out from the base plate;**
 - a connecting seat having two bases corresponding to and received in the two L-shaped supports and an opening defined in the connecting seat;**
 - a pressing seat integrally formed with the connecting seat and having a dome formed to be received in a through hole defined in the connecting seat and a blocking plate extending upright relative to the pressing seat;**
 - an outer cover having two pin holes defined to correspond to the two pins to allow the two pins to extend into the two pin holes to be pivotable relative to the base plate and an insertion formed on a curved top portion of the outer cover to correspond to the opening of the connecting plate such that after the insertion is inserted into the opening, the outer cover is connected to the connecting plate when the outer cover is pivoted toward the base plate; and**
 - a rear clip securely connected to a rear face of the base plate.**
- 2. The clamp as claimed in Claim 1, wherein the rear clip has an aperture corresponding to a connection hole of the base plate such that a securing element is able to extend into the aperture and the connection hole to secure engagement between the rear clip and the base plate.**
- 3. The clamp as claimed in Claim 2 further comprising multiple soft pads securely sandwiched between the outer cover and the base plate.**
- 4. The clamp as claimed in Claim 3, wherein the base plate has two guiding tracks defined between the two L-shaped supports to correspond to two passages respectively defined in a side face of each base of the pressing seat such that the**

connecting seat is able to engage with the base plate by inserting the two guiding tracks into the two corresponding passages until the two bases are supported and received in the two L-shaped supports.

5. The clamp as claimed in Claim 4, wherein the base plate has an insertion hole defined to correspond to a tongue formed on a bottom of the rear clip such that after the tongue is inserted into the corresponding insertion hole, engagement between the base and the rear clip is enhanced.
6. The clamp as claimed in Claim 5, wherein the base plate further has multiple bosses formed on a top portion of the base plate to co-operate with the blocking plate whereby an object is selectively secured by the blocking plate and the bosses.
7. The clamp as claimed in Claim 6, wherein the base plate has multiple spacers formed on the rear face of the base plate to abut a face of the rear clip such that after the engagement between the base plate and the rear clip is accomplished, a distance is still kept therebetween.
8. The clamp as claimed in Claim 7, wherein the pressing seat has multiple extensions each with a combining hole and the connecting seat has multiple second bosses formed around a periphery defining the through hole to correspond to the combining holes such that after the second bosses are inserted into the combining holes, engagement between the connecting seat and the pressing seat is accomplished.
9. The clamp as claimed in Claim 8, wherein the connecting seat has multiple supports on a rear face of the connecting seat to engage with the base plate.
10. The clamp as claimed in Claim 9, wherein the connecting seat has a hole corresponding to the connection hole such that the securing element is able to

extend into the hole to secure the connecting seat with combination of the base plate and the rear clip.

11. The clamp as claimed in Claim 10, wherein the rear clip has two hemispheres formed on a top portion of the rear clip to engage with the base plate.
12. The clamp as claimed in Claim 11, wherein the rear clip has multiple slip-proof strips formed on an inner face of the rear clip.
13. The clamp as claimed in Claim 12, wherein the outer cover has two arms extending outward from the outer cover, each arm having a cutout defined at a joint of the arm and the outer cover to prevent falling of the object sandwiched between the outer cover and the base plate when the outer cover is pivoted away from the base plate.